

## **MAGNETIC MEMORY**

### **Abstract of the Disclosure**

A magnetic memory is disclosed. In one embodiment, the magnetic memory includes first and second memory cells and a read controller coupled to the first and second memory cells. An output controller coupled to the read controller and to the first and second memory cells, wherein the output controller is configured to receive read data in parallel only from the first or second memory cells which have completed the current read operation regardless of whether both the first and second memory cells have completed the current read operation and convert the parallel data to serial data and shift the parallel data to an output in synchronism with the system clock signal.